

Practice: 393 - Filter Strip**Scenario: #1 - Native****Scenario Description:**

A strip or area of native herbaceous vegetation situated between cropland, grazing land, or disturbed land and sensitive areas. Practice includes chemical seedbed prep and planting of native species. Includes foregone income for the area of the filter strip taken out of production.

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Situation:

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes chemical seedbed preparation, soil amendments (nutrients), and seeding. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$287.40

Scenario Cost/Unit: \$287.40

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.04	1	\$6.04
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.04	1	\$21.04
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	0.4	\$57.74
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$115.67	0.3	\$34.70
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$271.04	0.3	\$81.31
Materials						
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$70.93	1	\$70.93
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.63	1	\$15.63

Practice: 393 - Filter Strip**Scenario: #2 - Introduced****Scenario Description:**

A strip or area of herbaceous vegetation situated between cropland, grazing land, or disturbed land and sensitive areas. Practice includes chemical seedbed prep, soil admendments (nutrients), and planting of approved species. Includes forgone income for the area of the filter strip taken out of production.

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Situation:

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of mostly introduced herbaceous species. The filter strip will have adequate width to filter the planned pollutants. The practice includes chemical seedbed preparation, soil admendments (nutrients), and seeding. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$280.99

Scenario Cost/Unit: \$280.99

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.04	1	\$6.04
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.04	1	\$21.04
Foregone Income						
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$271.04	0.3	\$81.31
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$115.67	0.3	\$34.70
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	0.4	\$57.74
Materials						
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.66	20	\$13.20
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.63	1	\$15.63
Nitrogen (N), Urea	71	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.62	30	\$18.60
One Species, Cool Season, Introduced Perennial Grass	2313	Introduced, cool season perennial grass. Includes material and shipping only.	Acre	\$32.72	1	\$32.72

Practice: 393 - Filter Strip**Scenario: #3 - Native with Shaping****Scenario Description:**

A strip or area of native herbaceous vegetation situated between cropland, grazing land, or disturbed land and sensitive areas. Practice includes chemical seedbed prep, land shaping/smoothing with producer equipment, and planting of native species. Includes foregone income for the area of the filter strip taken out of production.

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Situation:

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes chemical seedbed preparation (including any shaping/smoothing needed to ensure even entry of water into the strip), and seeding. Species selected shall be able to withstand partial burial by sediment and be tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$642.25

Scenario Cost/Unit: \$642.25

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$69.96	1	\$69.96
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.04	1	\$6.04
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.04	1	\$21.04
Foregone Income						
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$115.67	0.3	\$34.70
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	0.4	\$57.74
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$271.04	0.3	\$81.31
Labor						
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.71	1	\$18.71
Materials						
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.63	1	\$15.63
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$70.93	1	\$70.93
Mobilization						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$266.18	1	\$266.18

Practice: 393 - Filter Strip**Scenario: #4 - Introduced with Shaping****Scenario Description:**

A strip or area of introduced herbaceous vegetation situated between cropland, grazing land, or disturbed land, and sensitive areas. Practice includes chemical seedbed prep, land shaping with producer owned equipment, soil amendments (nutrients), and planting of approved species. Includes foregone income for the area of the filter strip taken out of production.

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Situation:

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of mostly introduced herbaceous species. The filter strip will have adequate width to filter the planned pollutants. The practice includes chemical seedbed preparation (including any shaping needed to ensure even entry of water into the strip), soil amendments (nutrients), and seeding. Species selected shall be able to withstand partial burial by sediment and be tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$642.92

Scenario Cost/Unit: \$642.92

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.04	1	\$21.04
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.04	1	\$6.04
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$69.96	1	\$69.96
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	0.4	\$57.74
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$271.04	0.3	\$81.31
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$115.67	0.3	\$34.70
Labor						
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$25.79	1	\$25.79
Materials						
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.66	20	\$13.20
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.63	1	\$15.63
Nitrogen (N), Urea	71	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.62	30	\$18.60
One Species, Cool Season, Introduced Perennial Grass	2313	Introduced, cool season perennial grass. Includes material and shipping only.	Acre	\$32.72	1	\$32.72
Mobilization						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$266.18	1	\$266.18